SEQUENCE LISTING

(1) GENERAL INFORMATION:

    (i) APPLICANT:
        NAME: ARCH DEVELOPMENT CORPORATION
        STREET: 1101 East 58th Street
        CITY: Chicago
        STATE: Illinois
        COUNTRY: United States of America
        POSTAL CODE: 60637
        TELEPHONE NO: (312) 702-1692
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    (ii) INVENTOR: Drmanac, Radoje

   (iii) TITLE OF INVENTION: Methods and Compositions for
                            Efficient Nucleic Acid
                            Sequencing

    (iv) NUMBER OF SEQUENCES: 10

    (v) CORRESPONDENCE ADDRESS:
        (A) ADDRESSEE: Arnold, White & Durkee
        (B) STREET: P. O. Box 4433
        (C) CITY: Houston
        (D) STATE: TX
        (E) COUNTRY: USA
        (F) ZIP: 77210-4433

    (vi) COMPUTER READABLE FORM:
        (A) MEDIUM TYPE: Floppy disk
        (B) COMPUTER: IBM PC compatible
        (C) OPERATING SYSTEM: PC-DOS/MS-DOS
        (D) SOFTWARE: PatentIn Release #1.0, Ver. #1.25

   (vii) CURRENT APPLICATION DATA:
        (A) APPLICATION NUMBER: FILING HEREWITH
        (B) FILING DATE: FILING HEREWITH
        (C) CLASSIFICATION:

 (viii) PRIOR APPLICATIONS DATA:
        (A) APPLICATION NUMBER: USSN 08/303,058
        (B) FILING DATE: 08 SEPTEMBER 1994 (08.09.94)
        (C) CLASSIFICATION: UNKNOWN

        (A) APPLICATION NUMBER: USSN 08/127,420
        (B) FILING DATE: 27 SEPTEMBER 1993 (27.09.93)
        (C) CLASSIFICATION: UNKNOWN

    (ix) ATTORNEY/AGENT INFORMATION:
        (A) NAME: Parker, David L.
        (B) REGISTRATION NUMBER: 32,165
        (C) REFERENCE/DOCKET NUMBER: ARCD146P--\PAR

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    (x)  TELECOMMUNICATION INFORMATION:
         (A)  TELEPHONE: (512) 418-3000
         (B)  TELEFAX: (512) 474-7577


(2)  INFORMATION FOR SEQ ID NO:1:

     (i)  SEQUENCE CHARACTERISTICS:
          (A)  LENGTH: 12 base pairs
          (B)  TYPE: nucleic acid
          (C)  STRANDEDNESS: single
          (D)  TOPOLOGY: linear

     (ii) MOLECULE TYPE: DNA

     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

     AAAAAATTTT TT                                           12


(2)  INFORMATION FOR SEQ ID NO:2:

     (i)  SEQUENCE CHARACTERISTICS:
          (A)  LENGTH: 13 base pairs
          (B)  TYPE: nucleic acid
          (C)  STRANDEDNESS: single
          (D)  TOPOLOGY: linear

     (ii) MOLECULE TYPE: DNA

     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

     AAAAAATTTT TTC                                          13


(2)  INFORMATION FOR SEQ ID NO:3:

     (i)  SEQUENCE CHARACTERISTICS:
          (A)  LENGTH: 12 base pairs
          (B)  TYPE: nucleic acid
          (C)  STRANDEDNESS: single
          (D)  TOPOLOGY: linear

     (ii) MOLECULE TYPE: DNA

     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

     AAAAATTTTT TA                                           12


(2)  INFORMATION FOR SEQ ID NO:4:

     (i)  SEQUENCE CHARACTERISTICS:
          (A)  LENGTH: 12 base pairs
          (B)  TYPE: nucleic acid
          (C)  STRANDEDNESS: single
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                    (D) TOPOLOGY: linear

            (ii) MOLECULE TYPE: DNA

5   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

    AAAAATTTTT TT   12

10   (2) INFORMATION FOR SEQ ID NO:5:

            (i) SEQUENCE CHARACTERISTICS:
                    (A) LENGTH: 12 base pairs
                    (B) TYPE: nucleic acid
15   (C) STRANDEDNESS: single
                    (D) TOPOLOGY: linear

            (ii) MOLECULE TYPE: DNA

20   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

    AAAAATTTTT TC   12

25   (2) INFORMATION FOR SEQ ID NO:6:

            (i) SEQUENCE CHARACTERISTICS:
                    (A) LENGTH: 12 base pairs
                    (B) TYPE: nucleic acid
30   (C) STRANDEDNESS: single
                    (D) TOPOLOGY: linear

            (ii) MOLECULE TYPE: DNA

35   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

    AAAAATTTTT TG   12

40   (2) INFORMATION FOR SEQ ID NO:7:

            (i) SEQUENCE CHARACTERISTICS:
                    (A) LENGTH: 12 base pairs
                    (B) TYPE: nucleic acid
45   (C) STRANDEDNESS: single
                    (D) TOPOLOGY: linear

            (ii) MOLECULE TYPE: DNA

50   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

    TAAAAATTTT TT   12

55   (2) INFORMATION FOR SEQ ID NO:8:

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    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 12 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: DNA

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

CAAAAATTTT TT   12

(2) INFORMATION FOR SEQ ID NO:9:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 12 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: DNA

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

GAAAAATTTT TT   12

(2) INFORMATION FOR SEQ ID NO:10:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 11 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
       (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: DNA

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

AAAAAATTTT T   11